



## Declaration of Electromagnetic Field Health Compliance for DRH3985A (GUL Cellular band)

To whom it may concern,

As to the product **DRH3985A** made by Huawei Technologies Co., Ltd., we declare that it complies with the Basic restrictions/Reference levels for electric, magnetic and electromagnetic fields as specified in following standards(s):

Nr.	Standard
1	47CFR FCC Part 1 (10-1-12 Edition) & OET Bulletin 65
2	RSS-102 (Issue4, March 2010)

The compliance is demonstrated based on the following calculation model assessment:

1. The power density according to far-field model is:

$$S = \frac{P \times G_{(\theta, \phi)}}{4 \times \pi \times R^2}$$

Where:

$P$  = input power of the antenna.

$G$  = antenna gain relative to an isotropic antenna.

$\theta, \phi$  = elevation and azimuth angles.

$R$  = distance from the antenna to the point of investigation.

2. For single or multiple RF sources, the calculated power density should comply with following:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Where:

$S_i$  = the power density when the  $f$  is  $i$ .

$S_{Limit,i}$  = the reference level requirement for power density when  $f$  is  $i$ .

3. The calculation of the power density or safe distance is:

NOTE 1: The RF exposure evaluation is base on the far-field and the radiation exposure is over-estimated.

NOTE 2: The maximum output power level is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

NOTE 3: The minimum antenna feed cable loss (assumed no cable loss) is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

NOTE 4: The maximum antenna radiation exposure orientation and maximum antenna gain is taken into account as a worst case for the purpose of the calculation of power density or safe distance.

RF Source	Calculation
RF Source #1	$f = 869$ to $894$ MHz

RF Source	Calculation
	$S_{Limit,i} = 5.793 \text{ W/m}^2$ $P = 46.2 \text{ W} (= 46.6 \text{ dBm, measured max})$ $G_{(\theta,\phi)} = 10 (= 10 \text{ dBi})$ $\theta, \phi = \text{The worst condition is considered, i.e. the max } G \text{ is used.}$ $S_i = \frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2} = 36.76 / R^2 \text{ W/m}^2$ $\frac{S_i}{S_{Limit,i}} = 6.35 / R^2$
RF Source(s) Combination	$\sum_i \frac{S_i}{S_{Limit,i}} = 6.35 / R^2 \leq 1$ $R \geq 2.52 \text{ m (the minimum Safe Distance)}$

Person responsible for making this declaration:

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